

Through the eyes of the physician

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Propositions

Through the eyes of the physician:

Expertise development in resuscitation medicine

Adam Szulewski

1. As expertise develops, physicians involved in resuscitation medicine progressively exert less cognitive load for particular tasks and their cognitive processes become more efficient and expert-like. (This thesis)
2. Assessment in medicine should be more than just performance assessment. (This thesis)
3. In order to develop criterion-based assessment strategies in resuscitation medicine (where many cognitive processes aren't readily observable to an outside observer), we require a deeper approach than that provided by traditional assessment modalities. (This thesis)
4. Understanding what's *under the hood* when physicians make decisions caring for acutely unwell patients during medical crises gives medical educators a more robust understanding of where their trainees lie along the novice-expert continuum in resuscitation medicine. (This thesis)
5. The practice of emergency medicine is rooted in the ability of the emergency physician to make frequent, efficient and effective decisions.
6. Although decision-making itself is central to patient care, the broader scope of crisis resource management skills, including leadership, situational awareness, communication skills, and resource utilization are integral to providing effective patient care in the emergency department.
7. "In pretty much every area, a hallmark of expert performance is the ability to see patterns in a collection of things that would seem random or confusing to people with less developed mental representations. In other words, experts see the forest when everyone else sees only trees." (Anders Ericsson)
8. To optimize learning, medical simulation of the future should be designed so that case complexity is adjustable in real-time in response to a trainee's measured performance and cognitive load.
9. "I've missed more than 9000 shots in my career. I've lost almost 300 games. 26 times, I've been trusted to take the game winning shot and missed. I've failed over and over and over again in my life. And that is why I succeed." (Michael Jordan)
10. "The world makes much less sense than you think. The coherence comes mostly from the way your mind works." (Daniel Kahneman)